

CLAIMS

WHAT IS CLAIMED IS:

5 1. An integrated tilt latch/sash lock assembly for a sash window assembly, the sash window assembly having a sash window slidable within a master frame, the sash window having a sash rail, the tilt latch/sash lock assembly comprising:

 a rotor adapted to be supported by the sash rail and rotatable between an extended position wherein the rotor extends from the sash rail and a retracted position wherein the rotor is generally
10 within the sash rail;

 a keeper adapted to be supported by the master frame, the keeper having an upper extension for being impacted by the rotor when the rotor is between the extended and retracted positions;

 a tilt latch mechanism operably connected to the sash lock mechanism and adapted to be supported within a second location of the sash rail, the tilt latch mechanism having a latch bolt
15 adapted to engage the master frame; and

 an actuator operably connected to the rotor, the actuator having a locked position wherein the rotor engages the keeper, the actuator being moveable to an unlocked position wherein the rotor is disengaged from the keeper, and being further moveable to a tiltable position wherein the latch bolt is disengaged from the master frame.

20 2. The integrated tilt latch/sash lock assembly of claim 1 wherein the upper extension further comprises a beveled surface for impacting the rotor and moving the rotor towards the retracted position.

25 3. The integrated tilt latch/sash lock assembly of claim 1 wherein the rotor comprises a pawl operably connected with the rotor and with the tilt latch mechanism, the pawl rotatable between an extended position without the sash rail and a retracted position within the sash rail and wherein the upper extension is configured to impact the pawl to move it towards its retracted position.

30 4. A window assembly comprising:
 a master frame;
 a sash window slidable within the master frame and having a first sash rail;

a rotor supported within a first location of the first sash rail and rotatable between an extended position wherein the rotor extends from the first sash rail and a retracted position wherein the rotor is within the first sash rail;

5 a keeper supported by a second sash rail having an upper extension configured to be impacted by the rotor when the rotor is in the extended position;

a tilt latch mechanism operably connected to the sash lock mechanism and supported within a second location of the first sash rail, the tilt latch mechanism having a latch bolt adapted to engage the master frame; and

10 an actuator operably connected to the rotor, the actuator having a locked position wherein the rotor engages the keeper, the actuator being moveable to an unlocked position wherein the rotor is disengaged from the keeper, and being further moveable to a tiltable position wherein the latch bolt is disengaged from the master frame.

5. The window assembly of claim 4 wherein the upper extension further comprises a
15 beveled surface for impacting the rotor and moving the rotor towards the retracted position.

6. The window assembly of claim 4 wherein the rotor comprises a pawl operably
connected with the rotor and with the tilt latch mechanism, the pawl rotatable between an extended
position without the sash rail and a retracted position within the sash rail and wherein the upper
20 extension is configured to impact the pawl to move it towards its retracted position.

7. The window assembly of claim 4 wherein the sash window is slidable between a
closed position wherein the first sash rail generally confronts the second sash rail and an open
position wherein the first sash rail does not confront the second sash wherein the rotor impacts the
25 upper extension as the sash window is moved from the open position towards the closed position.

8. The window assembly of claim 7 wherein the keeper includes a body portion
mounted to a front face of the second sash rail and the upper extension extends from the body
towards an upper surface of the second sash rail.

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9. A sash lock mechanism for a window assembly having master frame with a sash
window slidably disposed therein, the sash window having a first sash rail, the master frame further
having a second sash rail disposed therein, the sash lock mechanism comprising:

a sash lock housing adapted to be supported within the first sash rail and having a rotor mounted therein rotatable between an unlocked position within the housing and a locked position without of the housing;

5 a keeper adapted to be mounted to the second sash, the keeper having an upper extension configured to be impacted by the rotor when the rotor is in the extended position.

10. The sash lock mechanism of claim 9 wherein the upper extension comprises a beveled face for urging the rotor towards the unlocked position.

10 11. An integrated tilt latch/sash lock assembly for a sash window assembly, the sash window assembly having a sash window slidable within a master frame, the sash window having a sash rail, the tilt latch/sash lock assembly comprising:

a rotor adapted to be supported by the sash rail;

15 a tilt latch mechanism operably connected to the sash lock mechanism and adapted to be supported by the sash rail, the tilt latch mechanism having a latch bolt adapted to engage the master frame;

20 an actuator operably connected to the rotor, the actuator having a locked position wherein the locking end of the rotor is adapted to engage the master frame, the actuator being moveable to an unlocked position wherein the rotor is disengaged from the master frame, and being further moveable to a tiltable position wherein the connector retracts the latch bolt from the master frame; and

an escutcheon adapted to be mounted to the sash rail, the escutcheon having an indicia to indicate to a user that the handle is in one of the locked position, unlocked position and tiltable position.

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12. The integrated tilt latch/sash lock assembly of claim 11 wherein the escutcheon has a second indicia to indicate to a user that the handle is one of the locked position, unlocked position and tiltable position that is not indicated by the first indicia.

30 13. The integrated tilt latch/sash lock assembly of claim 12 wherein the escutcheon has a second indicia to indicate to a user that the handle is the one of the locked position, unlocked position and tiltable position not indicated by either the first indicia or second indicia.

14. The integrated tilt latch/sash lock assembly of claim 11 wherein the escutcheon has a locating boss depending therefrom adapted to properly orient the escutcheon on the sash rail.

15. The integrated tilt latch/sash lock assembly of claim 11 wherein the escutcheon has
5 a central opening and the actuator passes through the central opening.

16. An integrated tilt latch/sash lock assembly for a sash window assembly, the sash window assembly having a sash window slidable within a master frame, the sash window having a sash rail, the tilt latch/sash lock assembly comprising:

10 a rotor adapted to be supported within a first location of the sash rail;
a tilt latch mechanism operably connected to the sash lock mechanism and adapted to be supported within a second location of the sash rail, the tilt latch mechanism having a latch bolt adapted to engage the master frame;

an actuator having a stem operably connected to the rotor and a handle, the handle having
15 a locked position wherein the locking end of the rotor is adapted to engage the master frame, the actuator being moveable to an unlocked position wherein the rotor is disengaged from the master frame, and being further moveable to a tiltable position wherein the connector retracts the latch bolt from the master frame, the handle further having a first indicia; and

an escutcheon adapted to be mounted to the sash rail, the escutcheon having a base indicia
20 wherein the first indicia and the base indicia cooperate to indicate to a user that the handle is in one of the locked position, the unlocked position and the tiltable position.

17. The integrated tilt latch/sash lock assembly of claim 16 wherein the handle has a second indicia and the second indicia and base indicia cooperate to indicate to a user that the handle
25 is in one of the locked position, unlocked position and tiltable position that is not indicated by the cooperation of the first indicia with the base indicia

18. The integrated tilt latch/sash lock assembly of claim 17 wherein the handle has a third indicia and the third indicia and the base indicia cooperate to indicate the handle is in one of
30 the locked position, the unlocked position and the tiltable position not indicated by cooperation of the base indicia with either of the first indicia or the second indicia.